

# This Week in PHOTONICS



**LightMachinery**  
Excellence in Lasers and Optics



**Hyperfine Spectrometer**  
A sub-picometer resolution spectrometer in a compact package.

## :: Top Stories

### 2022 SPIE and Photonics Media Prism Awards Celebrate Innovative Photonics Technologies

SPIE, the international society for optics and photonics, and Photonics Media recognized the top optics and photonics products on the market with their industry-focused Prism Awards. The 14th annual ceremony, held Jan. 26, showcased a dynamic range of companies, with winners revealed in 10 categories.

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### Metalenz Tech Aims to Enable Smartphone Polarization Imaging

Meta-optics company Metalenz has unveiled a polarization-based optical technology called PolarEyes. The technology, which is not yet commercially available, takes the capabilities of bulky polarization imaging systems and shrinks it to a fraction of the size. Polarization information can be used to discern properties such as a surface's roughness, as well as details about its composition.

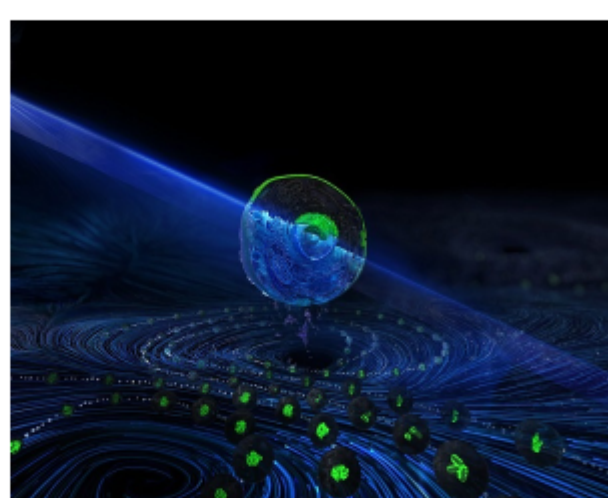
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### Flow Cytometry Technique Enables High-Speed Cell Sorting

A study led by global medical technology company BD, in collaboration with the European Molecular Biology Laboratory, has demonstrated an innovation in flow cytometry that adds fluorescence imaging and image-based fluorescence to sort individual cells at exceptionally high speed based on the visual details of each cell, as opposed to on the type or quantity of biomarkers that are present.

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## :: Featured Products

### [Blue 450 nm Laser Diode](#)



**PhotonTec Berlin GmbH**  
PhotonTec Berlin extends the wavelength of high-power laser diodes to blue 450 nm. The modules come with hermetically sealed packages in compact size with integrated thermistor, photodiode, and optional red aiming. The output power reaches up to 120 W from 200  $\mu$ m or 400  $\mu$ m optical fiber.

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### [Optical Filters for Point of Care](#)



**Delta Optical Thin Film A/S**  
Point of Care (PoC)

instruments have various uses in medical diagnostics, including the detection of infectious diseases such as Covid-19. These types of tests only require a single drop of blood, saliva, or urine and can be performed by a GP within minutes.

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### [LIGHT: Introduction to Optics and Photonics, Second Edition](#)



**Photonics Media**  
Offering a comprehensive treatment of the subject as well as key applications, and employing minimal math,

LIGHT: Introduction to Optics and Photonics was written with readers in mind. This textbook is for beginning students of optics and photonics in high school, community college, and university STEM courses as well as for teachers and non-optics industry professionals looking for a basic understanding of the subject.

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### [DIY Raman Building Blocks](#)



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[Visual Sensors Combine for Rail Vehicle Safety](#) [Read Article](#)

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## :: Upcoming Webinars

### Photon Counting for Low-Light Applications: SiPM, SPAD, SNSPD, PMT, TES, and Photon-Resolving Camera Technologies

Wed, Feb 16, 2022 1:00 PM - 2:00 PM EST

This webinar overviews six types of single-photon photodetectors for low-light conditions: photomultiplier tubes (PMTs), single-photon avalanche photodiodes (SPADs), silicon photomultipliers (SiPMs), superconducting nanowire single-photon detectors (SNSPDs), superconducting transition edge sensor (TES), and photon-resolving cameras. All of these detector technologies are becoming more popular as developers and suppliers aim toward satisfying the increasing demand for 'modern' photonic applications, including quantum computing, lidar, dark matter detection, and more. Presented by Hamamatsu Corporation.

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